

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
 1374-SPL C

Total Pages in this Submission

**TO THE COMMISSIONER FOR PATENTS**

Mail Stop Patent Application  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**METHOD AND APPARATUS FOR SEGMENTING SMALL STRUCTURES IN IMAGES**

and invented by:

Isaac N. Bankman and Tanya Nizialek

031088 US PTO  
 10/7/16 97  


If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No.: 09/305,016

Which is a:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Which is a:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1.  Filing fee as calculated and transmitted as described below
  
2.  Specification having 49 pages and including the following:
  - a.  Descriptive Title of the Invention
  - b.  Cross References to Related Applications (*if applicable*)
  - c.  Statement Regarding Federally-sponsored Research/Development (*if applicable*)
  - d.  Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix
  - e.  Background of the Invention
  - f.  Brief Summary of the Invention
  - g.  Brief Description of the Drawings (*if filed*)
  - h.  Detailed Description
  - i.  Claim(s) as Classified Below
  - j.  Abstract of the Disclosure

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**Application Elements (Continued)**

3.  Drawing(s) (*when necessary as prescribed by 35 USC 113*)  
a.  Formal Number of Sheets \_\_\_\_\_ 11  
b.  Informal Number of Sheets \_\_\_\_\_

4.  Oath or Declaration  
a.  Newly executed (*original or copy*)  Unexecuted  
b.  Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)  
c.  With Power of Attorney  Without Power of Attorney  
d.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).

5.  Incorporation By Reference (*usable if Box 4b is checked*)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under  
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby  
incorporated by reference therein.

6.  CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)

7.  Application Data Sheet (See 37 CFR 1.76)

8.  Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all must be included*)  
a.  Computer Readable Form (CFR)  
b.  Specification Sequence Listing on:  
i.  CD-ROM or CD-R (2 copies); or  
ii.  Paper  
c.  Statement(s) Verifying Identical Paper and Computer Readable Copy

**Accompanying Application Parts**

9.  Assignment Papers (cover sheet & document(s))

10.  37 CFR 3.73(B) Statement (when there is an assignee)

11.  English Translation Document (if applicable)

12.  Information Disclosure Statement/PTO-1449  Copies of IDS Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503) (Should be specifically itemized)

15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)

16.  Certificate of Mailing  
 First Class  Express Mail (*Specify Label No.*): EV248630160US

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**Accompanying Application Parts (Continued)**

17.  Applicant claims small entity status. See 37 CFR 1.27.

(Optional) Small Entity Statement(s) - Specify Number of Statements Submitted: 1

18.  Additional Enclosures (*please identify below*):

**Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)**

19.  Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

***Warning***

***An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.***

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**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	23	- 20 =	3	x \$9.00	\$27.00
Indep. Claims	4	- 3 =	1	x \$43.00	\$43.00
Multiple Dependent Claims (check if applicable)		<input type="checkbox"/>			\$0.00
				<b>BASIC FEE</b>	<b>\$385.00</b>
OTHER FEE (specify purpose)					\$0.00
				<b>TOTAL FILING FEE</b>	<b>\$455.00</b>

A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.

The Director is hereby authorized to charge and credit Deposit Account No. 01-2218 as described below.

Charge the amount of \$455.00 as filing fee.

Credit any overpayment.

Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.

Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: November 18, 2003

Francis A. Cooch  
*Signature*

Francis A. Cooch, Reg. No. 31,495  
 Johns Hopkins University Applied Physics Laboratory  
 11100 Johns Hopkins Road  
 Laurel, MD 20723-6099  
 Phone: 240.228.5640

cc:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JHU/APL Docket No. 1374-SPL

Serial No.: 09/305,016

Filed: May 4, 1999

Inventors: Isaac N. Bankman and Tanya Nizialek

For: METHOD AND APPARATUS FOR SEGMENTING SMALL STRUCTURES IN IMAGES

Mail Stop Petition  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" label number EV248630160US

Date of Deposit: November 18, 2003

I hereby certify that the following documents for the above-identified patent application consisting of the following:

1. Postcard receipt
2. Petition for Revival of an Application for Patent Abandoned  
Unintentionally (3 pp.) (in dupl.)
3. Utility Patent Application Transmittal (4 p.)
4. Copy of Declaration and Power of Attorney (3 pp.)
5. Specification (31 pp.); claims (6 pp.); Abstract (1 p.); drawings (11 sheets)

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Mary Jane Colson  
Mary Jane Colson

Petition For Revival Of An Application For Patent Abandoned  
Unintentionally Under 37 CFR 1.137(b) (Small Entity)

Docket No.  
1374-SPL

In Re Application Of *Patent Office* N. Bankman and Tanya Nizialek

Serial No. **NOV 18 2003**  
09/305,015

Filing Date  
May 4, 1999

Examiner  
Abolfazi Tabatabai

Group Art Unit  
2625

Invention:

**METHOD AND APPARATUS FOR SEGMENTING SMALL STRUCTURES IN IMAGES**

Attention: Office of Petitions  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (703) 305-9282.

The above-identified application became abandoned for failure to file a timely and proper response to a notice or action by the Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extension of time actually obtained.

**APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION**

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee--required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional.

1.  A proposed reply to the above-identified Office Action:

is enclosed.  was filed on

The proposed reply is in the form of:

*a continuing application* *PK*

2.  The issue fee:

is enclosed.  was paid on \_\_\_\_\_

3.  A small entity declaration:

is enclosed.  was filed on May 4, 1999

4.  The abandoned application was a:

design application.  utility application.  plant application.

5.  A terminal disclaimer (and fee) disclaiming a period equivalent to the period of abandonment is enclosed.

6.  Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

Petition For Revival Of An Application For Patent Abandoned  
Unintentionally Under 37 CFR 1.137(b) (Small Entity)

Docket No.  
1374-SPL

In Re Application Of: Isaac N. Bankman and Tanya Nizialek

Serial No.  
09/305,016

NOV 18 2003

Filing Date  
May 4, 1999

Examiner  
Abolfazi Tabatabai

Group Art Unit  
2625

Invention:

METHOD AND APPARATUS FOR SEGMENTING SMALL STRUCTURES IN IMAGES

**Calculation and Payment of Fees**

Enclosed are the following fees:

7.  Petition fee under 37 CFR 1.17(m) in the amount of: \$665.00

8.  Fee for amendment in the amount of: \_\_\_\_\_

9.  Fee for extension of time to reply to Office Action in the amount of: \$475.00

10.  Issue fee in the amount of: \_\_\_\_\_

11.  Continuing application filing fee in the amount of: \_\_\_\_\_

12.  Terminal disclaimer fee in the amount of: \_\_\_\_\_

13.  \_\_\_\_\_

Total fees enclosed: \$1,140.00

The fee of \$1,140 is to be paid as follows:

A check in the amount of the fee is enclosed.

The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to  
Deposit Account No. 01-2218

Petition For Revival Of An Application For Patent Abandoned  
Unintentionally Under 37 CFR 1.137(b) (Small Entity)

Docket No.  
1374-SPL

In Re Application Of: Isaac N. Bankman and Tanya Nizialek

Serial No.  
09/305,016

Filing Date  
May 4, 1999

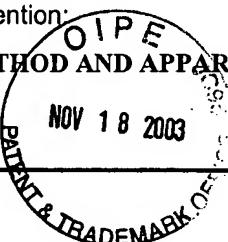
Examiner  
Abolfazi Tabatabai

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2625

Invention:

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NOV 18 2003



**Statement**

The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional.

Francis A. Cooch

*Signature*

Francis A. Cooch, Reg. No. 31,495

Office of Patent Counsel

The Johns Hopkins University/Applied Physics Lab  
11100 Johns Hopkins Road  
Laurel, MD 20723-6099  
Phone: 240.228.5640

Dated: *November 18, 2003*

I certify that this document and fee is being deposited on *November 18, 2003* with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Signature of Person Mailing Correspondence*

**Mary Jane Colson**

*Typed or Printed Name of Person Mailing Correspondence*

CC: